Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-25-30** **Date: 09-12-21**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-12-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Project Division
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BBMP, Bangalore - 92

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-25-30** **Date: 04-01-22**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-12-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-25-30** **Date: 09-12-21**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-12-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-25-30** **Date: 09-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-25-30** **Date: 08-12-21**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-25-30** **Date: 08-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

LID	:	CP-2022-04-25-30 **Date: 08-12-21**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-12-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	55	185	18.5	81.5	60-95	75-100	85-100	95-100
4	1.18 mm	239	211	21.1	78.9	30-70	55-90	75-100	90-100
5	600 micron	205	158	15.8	84.2	15-34	35-59	60-79	80-100
6	300 micron	203	236	23.6	76.4	5-20	8-30	12-40	15-50
7	150 micron	191	146	14.6	85.4	0-10	0-10	0-10	0-15
8	Pan	80	43	4.3	95.7	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ID : CP-2022-04-25-30 Date: 08-12-21

PHYSICAL PROPERTIES

Slno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2022-04-25-30	**Date: 24-12-21**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.	
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-12-21	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete	
Date of test	:	21/12/2021	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.02	165.48	2.925	7856	125.5	16.0	16.0	20.0
2	B	100.04	165.51	2.863	7859	120.5	15.3	15.3	19.2
3	C	100.01	165.52	2.756	7854	130.5	16.6	16.6	20.8

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Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2022

[illegible]	:	CP-2022-04-25-30
[illegible]	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
[illegible]	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
[illegible]	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	21/02/2022	28/02/2022	151.68 X 149.33 X 149.79	22650	8.349	281.5	12.4	12.5
2	PCC	M15	21/02/2022	28/02/2022	150.78 X 151.74 X 151.55	22879	8.287	296.8	13.0	
3	PCC	M15	21/02/2022	28/02/2022	150.23 X 149.64 X 151.91	22479	8.225	274.4	12.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

[illegible]	:	CP-2022-04-25-30 **Date: 21/03/2022**
[illegible]	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
[illegible]	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	21/02/2022	21/03/2022	149.15 X 151.41 X 149.04	22583	9.043	384.1	17.0	17.4
2	PCC	M15	21/02/2022	21/03/2022	151.04 X 151.65 X 149.41	22905	9.038	392.7	17.1	
3	PCC	M15	21/02/2022	21/03/2022	151.41 X 149.90 X 149.41	22697	9.071	408.1	18.0	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-04-25-30	**Date: 28/02/2022**
	: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
	: Project Sub Division, BBMP, Bangalore.	
Work Name	: Fencing of BBMP properties (Other than garden parks) Ward No.07.	
	: Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064	
Customer's Reference	: EE(Project)/Ynk Zone/WO/87/2020-21	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 23-02-22	
Customer ID	: PCC	
Sample Type /Size	: 150X150X150 mm	
Sample grade/Age	: M15 / 7 Days Compressive Strength	
Reference to BIS codes	: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	: 28/02/2022	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	21/02/2022	28/02/2022	151.35 X 149.50 X 150.65	22626	9.055	271.7	12.0	12.5
2	PCC	M15	21/02/2022	28/02/2022	150.92 X 149.52 X 151.73	22565	8.621	283.6	12.6	
3	PCC	M15	21/02/2022	28/02/2022	150.60 X 150.01 X 151.47	22591	9.023	289.6	12.8	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2022-04-25-30	**Date: 21/03/2022**
	: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
	: Project Sub Division, BBMP, Bangalore.	
Project Name	: Fencing of BBMP properties (Other than garden parks) Ward No.07.	
	: Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064	
Customer's Reference	: EE(Project)/Ynk Zone/WO/87/2020-21	
Source of Sample	: Sample supplied by Agency	
Sample Condition	: Satisfactory	
Date of Receipt	: 23-02-22	
Customer ID	: PCC	
Sample Type /Size	: 150X150X150 mm	
Sample grade/Age	: M15 / 28 Days Compressive Strength	
Reference to BIS codes	: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	: 21/03/2022	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	21/02/2022	21/03/2022	149.59 X 151.01 X 149.75	22589	8.892	393.8	17.4	17.4
2	PCC	M15	21/02/2022	21/03/2022	150.57 X 149.38 X 151.92	22493	8.750	392.8	17.5	
3	PCC	M15	21/02/2022	21/03/2022	151.43 X 149.71 X 150.61	22671	8.970	390.1	17.2	

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Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2022

ID	:	**CP-2022-04-25-30**
stomer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
ddress	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	21/02/2022	28/02/2022	149.13 X 151.31 X 150.15	22565	8.318	278.4	12.3	12.4
2	PCC	M15	21/02/2022	28/02/2022	149.85 X 151.98 X 149.53	22774	8.414	276.2	12.1	
3	PCC	M15	21/02/2022	28/02/2022	150.36 X 150.64 X 150.14	22651	8.898	286.7	12.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-25-30 **Date: 21/03/2022**

: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

: Project Sub Division, BBMP, Bangalore.

: Fencing of BBMP properties (Other than garden parks) Ward No.07.

: Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/87/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	21/02/2022	21/03/2022	151.53 X 150.08 X 151.96	22741	8.658	391.0	17.2	17.4
2	PCC	M15	21/02/2022	21/03/2022	150.18 X 150.96 X 151.01	22671	8.259	392.6	17.3	
3	PCC	M15	21/02/2022	21/03/2022	150.56 X 151.23 X 149.31	22769	8.237	401.2	17.6	

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

	:	**CP-2022-04-25-30** **Date: 22-03-22**
	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT FOR SAND MASONRY MORTARS

: CP-2022-04-25-30 Date: 22-03-22

PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

****End of Report****

CEMENT CONCRETE FLOORING TILES

: CP-2022-04-25-30 **Date: 29-03-22**
: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
: Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP properties (Other than garden parks) Ward No.07.
: Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post,
Customer Reference : EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-03-22
Sample Type : Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes : IS 1237:2012 (RA 2017)
Date of test : 24-03-22

1. Water Absorption

Sl.No.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	1.920		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

Sl.No.	Measured Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST RESULTES FOR MS BLOCK PIPE

	:	CP-2022-04-25-30 **Date: 03-02-22**
	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
	:	Project Sub Division, BBMP, Bangalore.
	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Project Name	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-22
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2017), IS 1599-2019.
Date of test	:	01-02-22

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE				
Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

****End of Report****

TEST RESULTES FOR MS RECTANGULAR POLE

: CP-2022-04-25-30 **Date: 08-01-22**

: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

: Project Sub Division, BBMP, Bangalore.

: Fencing of BBMP properties (Other than garden parks) Ward No.07.

: Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/87/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-22

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS:1608-2005(RA 2017), IS 1599-2019.

Date of test : 06-01-22

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER				
SL.NO	**Description**	**Result**	**Required as per IS Code 2062:2011**	**Remarks**
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	CP-2022-04-25-30
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Fencing of BBMP properties (Other than garden parks) Ward No.07.
Agency	:	Sri. S K KESHAV MURTHY, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/87/2020-21
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-01-22
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011 (RA 2021)
Date of test	:	17-01-22

Date: 19-01-22

TESTS RESULT FOR WIRE MESH		
SL.NO	Description	Result
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominaldia of meshwire in mm	2.52
5	Bend Test	Satisfactory

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R RUDRAPRASAD
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Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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